82599

Quadrupole Effect in the Nuclear Magnetic Resonance in the NaNO₃-AgNO₃ Mixed Crystals

S/056/60/039/01/07/029 B006/B070

account of rhombohedral symmetry, the latter show a splitting of the Na line into a central line and two symmetrically situated satellites. To investigate the influence of impurities on the Na spectrum, the authors used the above mentioned mixed crystals where Ag replaces the Na ion. By the investigation of the line spectrum it was found that the breadth of the satellite lines depended on the orientation of the crystal in the magnetic field (4400 oe). For $\psi = 0$ and 90° ($\psi = 0$ angle between the symmetry axis and \overline{H}), the satellites and the central line had a breadth of the order of 2-2.5 kc/sec which corresponds to a dipole-dipole width. For intermediate positions, the satellites became broader but their intensity remained constant and independent of the position. This effect may be explained by the mosaic structure. Fig. 1 shows the nuclear magnetic resonance spectra for pure NaNO₃, NaNO₃ + 0.5% AgNO₃ and NaNO₃ + 2.1% AgNO₃ for $\psi = 90^{\circ}$. In Fig. 2 the relative satellite intensity is shown as a function of the AgNO₃ content. The intensity diminished rapidly with increasing Ag concentration. For a concentration of 0.021 (21 Ag ions per 1000 Na ions in the satellites completely disappeared. The

Card 2/3

82599

Quadrupole Effect in the Nuclear Magnetic Resonance in the NaNO $_3$ -AgNO $_3$ Mixed Crystals

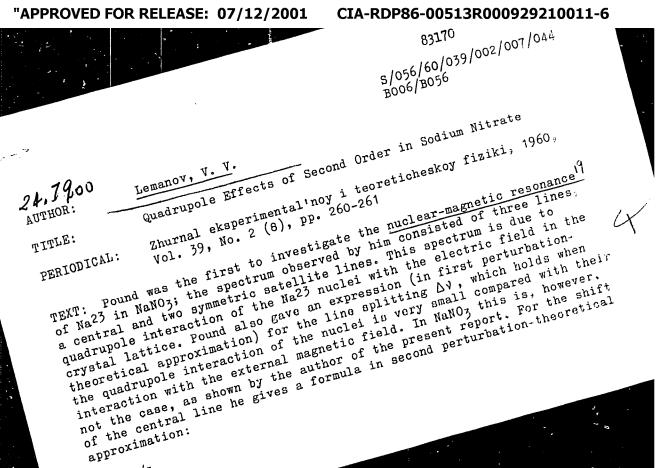
S/056/60/039/01/07/029 B006/B070

fact that the satellites show no broadening makes possible an analysis of the experimental results by the method of the critical sphere. It may be rightly assumed that no impurity ions (Ag⁺) penetrate into the critical sphere. From this it is concluded that the critical sphere contains 138 Na⁺ ions and has a radius of about 13 A. There are 2 figures and 5 references: 2 Soviet, 1 American, and 1 Japanese.

ASSOCIATION: Institut poluprovodnikov Akademii nauk SSSR (Institute of Semiconductors of the Academy of Sciences of the USSR)

SUBMITTED: February 19, 1960

Card 3/3



card 1/3

CIA-RDP86-00513R000929210011-6" 83170

Quadrupole Effects of Second Order in

s/056/60/039/002/007/044 вооб/во56

 $\Delta V_c = \frac{3}{64V_0} \left(\frac{e^2 qQ}{h}\right)^2 (1-9\cos^2 \varphi) (1-\cos^2 \varphi)$. Here, Q denotes the quadrupole Sodium Nitrate

moment of Na23, eq - the component of the field gradient in the axis of moment of Naco, eq - the component of the field gradient in the axis of symmetry and the symmetry, and θ - the angle formed by the axis of symmetry and the magnetic field. In first perturbation-theoretical approximation θ - with a decrease of the working fragmency. magnetic lietu. In lifet perturbation-theoretical approximation discharge frequency yo; with The shift increases with a decrease of the working frequency yo; with y₀ = 5.2Mc/sec and 4600 oe, the shift, with e²qQ/h = 334 kc/sec, is hetween +1.0 and -1.8 kc/sec. which may apply he showed arrangements between +1.0 and -1.8 kc/sec, which may easily be observed experimentally. The experiments carried out by the author by means of a device described The experiments carried out by the author by means of a device description of the experiments carried out by the author by means of a device description of the experiments at y = 0, both lines actually coincide, i.e., in Ref. 3 showed that at y = 0, both lines actually coincide, i.e., in Ref. 5 showed that at $y = 0^\circ$, both lines actually coincide, 1.e., (with different signs) $\Delta V = 0$, and at y = 42 and 900 the greatest shifts (with different signs) occur. Within the limits of measuring accuracy, the shifts agree with the values required theoretically. There are 3 references. 1 Soviet and the values required theoretically. the values required theoretically. There are 3 references: 1 Soviet and Institut poluprovodnikov Akademii nauk SSSR (Institute of

2 US. ASSOCIATION:

Semiconductors of the Academy of Sciences USSR)

Quadrupole Effects of Second Order in S/056/60/039/002/007/044
SUBMITTED: March 11, 1960

Card 3/3

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929210011-6"

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929210011-6

83171

s/056/60/039/002/008/044 B006/B056

Kornfel'd, M. I., Lemanov, V.

TITLE:

Nuclear-magnetic Resonance in Plastically Deformed Rock

Zhurnal eksperimentalinoy i teoreticheskoy fiziki, 1960, Salt

vol. 39, No. 2(8), pp. 262 - 264

TEXT: In the present paper, the authors give a short report on measure-PERIODICAL: ments of the intensity of the nuclear-magnetic resonance line of Na23 in plastically deformed rock salt as a function of the degree of deformation. The measurements were carried out on a device of the Pound type. The rock-salt crystals were compressed linearly in the [001] direction; measurements were carried out on each sample in three differrection; measurements were carried out on sample and [010]. No anent directions of the magnetic field: [100], [110], and [010]. No anent directions of the magnetic field: gular dependence could be found. The Fig. shows, on a logarithmic scale, the relative intensity of the satellite lines as a function of the degree of deformation. It follows herefrom that, as a consequence of compression, the intensity of the satellite lines diminishes. The defects

Card 1/3

83171

Nuclear-magnetic Resonance in Plastically Deformed Rock Salt

S/056/60/039/002/008/044 B006/B056

occurring in plastic compression were found to be linear; they are not described as dislocations but as distortion centers. In consideration of this fact as well as of the lacking of a broadening of the absorption lines, the authors, like in the case of impurity crystals, used the model of the critical sphere for calculating the satellite intensities in the case of randomly distributed distortion centers. Thus, $\ln(J/J_0) \approx - cv_c/v_0$. J and J_0 are the satellite intensities in the deformed and undeformed crystal, respectively, c the distortion-center concentration, v_0 the volume taken up by such a center, and v_c the volume of the critical sphere. It may be assumed that c is proportional to the degree of deformation, so that $\ln(J/J_0)$ would be a linear function of the degree of deformation. The diagram shows that this is actually the case. The authors finally show a possibility of estimating the size of the critical sphere from two relations set up for the field gradients. Thus, the value of 103 A is obtained for the radius of the critical sphere in plastically deformed NaCl. There are 1 figure and 6 references: 2 Soviet, 3 Japanese, and 1 British.

Card 2/3

Nuclear-magnetic Resonance in Plastically \$/056/60/039/002/008/044

BOO6/B056

ASSOCIATION: Institut poluprovodnikov Akademii nauk SSSR
(Institute of Semiconductors of the Academy of

Sciences USSR)

SUBMITTED: March 11, 1960

Card 3/3

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929210011-6"

20701

5/120/61/000/001/039/062 E032/E114

9,6000 (1163,1138,1160)

AUTHOR:

Lemanov, V.V.

TITLE: A Radiospectroscope for Studying Nuclear Magnetic

Resonance in Solids

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No.1, pp.126-128

The circuit described by R.V. Pound (Refs.1, 2) is the most widely used in the measurement of nuclear magnetic resonance signals. The basic disadvantage of the Pound arrangement is said to be the fact that voltages of less than 0.1 V cannot be obtained. while in order to reproduce undistorted NMR absorption lines in many solids lower voltages are required. The aim of the present work was to remove this disadvantage and at the same time reduce the noise level of the oscillator. The final form of the oscillator is shown in Fig. 2. A minimum voltage in the oscillator circuit of 0.02 V can be obtained. The oscillator has been used in the range 2-13 Mc/s. The sensitivity of the device incorporating this circuit is indicated by Fig. 6 which shows the central absorption line due to Na23 in an NaNO3 monocrystal in a field of 4300 oe. The noise factor was found to be 1.2-1.5. Card 1/3

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Card 2/3

S/120/61/000/001/039/062
E032/E114

A Radiospectroscope for Studying Nuclear Magnetic Resonance in Solids

The modulation amplitude and the time constant of the synchronous detector is the same as in Pound's papers. The signal-to-noise ratio is improved by a factor of 5-7.

There are 6 figures and 7 English references.

ASSOCIATION: Institut poluprovodnikov AN SSSR

(Institute for Semiconductors, AS USSR)

SUBMITTED: December 5, 1959

24.7900 1141

1144, 1395, 1155

22130 S/056/61/040/003/010/031 B102/B202

AUTHOR:

Lemanov, V.V.

TITLE:

Nuclear magnetic resonance in elastically deformed rocksalt

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 3, 1961, 775 - 779

TEXT: Data on the defects in a test solid may be obtained by a study of the quadrupole effects in nuclear magnetic resonance; the lattice distortions near the defects can be determined from the way the nuclear resonance absorption lines vary. For this purpose, however, one has to know the interrelation between the elastic deformation of the lattice and the additional electric field strength acting upon the nucleus due to the defect. This interrelation can be determined from experiments with nuclear magnetic resonance. R.G. Shulman et al. (Phys. Rev. 107, 953, 1957) made this for In 115 in InSb. This paper presents an analogous study for Na 23 in NaCl. Due to the high symmetry in the undeformed cubic crystal, no field acts upon the nucleus, and nuclear magnetic resonance appears as a

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Card 1/4

22130

Nuclear magnetic resonance ...

S/056/61/040/003/010/031 B102/B202

central line and its satellites which can be observed as one line. The deformation gives rise to a disturbance of the symmetry, a field strength appears, and the resonance absorption lines are split up into their components which should be observable in perfect resolution when the deformation is sufficient. Actually, this effect is very weak, and the lines are only more or less broadened. Shulman introduced the tensor C which interrelates the electric field strength acting upon the nucleus and the elastic stress in the lattice. In this paper, a similar tensor S interrelating the field tensor Q and the tensor δ of the elastic lattice deformation is introduced: $S_{\mu\nu} = \sum_{\kappa\lambda} S_{\mu\nu}, \kappa\lambda \delta_{\kappa\lambda}$; $(\kappa, \lambda, \mu, \nu = x, y, z)$. In a cubic crystal, only the two independent S components, S11 and S44 are existing, the determination of which the author attempts in this paper. A rocksalt sample of $8 \times 8 \times 20 \text{ mm}^3$ which was subjected to linear compression in the directions [001], [110], and [111], served as a testpiece. The maximum load was 66 kg/cm2. The magnetic field was always perpendicular to the direction of compression. As expected, the effect of the compression was very weak and Card 2/4

S/056/61/040/003/010/031 B102/B202

Nuclear magnetic resonance ...

Card 3/4

22130

Nuclear magnetic resonance ...

S/056/61/040/003/010/031 B102/B202

along [111] yields: $q_{xx} = q_{yy} = -\frac{1}{2}q_{zz} = -\frac{1}{3}S_{44}^{S}_{44}^{S}$ P, and deformation along [110]:

 $\varphi_{xx} = \left[\frac{1}{4}S_{11}(s_{11} - s_{12}) - \frac{1}{2}S_{44}s_{44}\right]P, \quad \varphi_{yy} = -\frac{1}{2}S_{11}(s_{11} - s_{12})P,$ $\varphi_{zz} = \left[\frac{1}{4} S_{11} \left(s_{11} - s_{12} \right) + \frac{1}{2} S_{44} s_{44} \right] P.$

and $q_{\rm HH}=-\frac{1}{2}[q_{\rm ZZ}+(q_{\rm ZZ}+2q_{\rm XX})\cos2\alpha]$, where α is the angle between the direction of the magnetic field and [001]. The experimental results agree with the theoretical predictions in all three cases. The numerical results are $S_{11} = \pm 2.10^{15}$ CGSE and $S_{44} = \pm 0.55 \cdot 10^{15}$ CGSE. Finally, the author thanks M.I. Kornfel'd for discussions, O.M. Nilov and V.V. Sokolov for their help. There are 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION:

Institut poluprovodnikov Akademii nauk SSSR (Institute of

Semiconductors, Academy of Sciences USSR)

SUBMITTED:

October 25, 1960

Card 4/4

CIA-RDP86-00513R000929210011-6 "APPROVED FOR RELEASE: 07/12/2001

s/056/61/041/005/015/038 B102/B108

94.7500 (1144,1462)

AUTHOP:

Kornfel'd, M. I., Lemanov, V. V.

TITLE:

Distortion of the NaCl lattice by Ag+, Br and K impurities

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,

no. 5(11), 1961, 1454 - 1460

TEXT: Nuclear magnetic resonance measurements were used to study the lattice distortions caused by impurity ions. The character and the amount of the distortions can be determined from an investigation of the quadrupole effects in this resonance. The interaction of the nuclear quadrupole moments with the electric field gradient causes a shift of the "satellite" frequencies which is proportional to the vicinity of the nucleus to the impurity ion. A "critical sphere" exists around this For nuclei within it, the satellite frequency shift is greater than the half width of the absorption line at the noise level. In order to determine the properties of this sphere and the lattice distortions at its boundaries, the authors measured the dependence of the lattice constant and of the intensity of the nuclear magnetic resonance absorption lines of

Card 1/4

26700 \$/056/61/041/005/015/038 B102/B108

Distortion of the NaCl

 Na^{23} on the concentration of the impurities AgCl, NaBr and KCl in NaCl single crystals. The maximum impurity concentrations were 4. 11 and 3 mole% respectively. The lattice parameters were measured by A. I. Zaslavskiy and T. B. Zhukova by means of a PKy.114 (RKU-114) camera and Cu K_{α} radiation, with an accuracy of $\pm 3.10^{-4}$ Å. The relative changes of the lattice parameters $\Delta a/a_{_{\hbox{\scriptsize O}}}$ were found to be linear functions of the impurity concentrations. The largest changes were observed for NaCl-KCl. The absorption lines of Na^{23} in pure and in impurified samples were measured with an apparatus described in an earlier paper (V. V. Lemanov, PTE, 1, 126, 1961). The intensities of the absorption lines decreased exponentially with increasing impurity concentrations and approached the intensity of the central line, which was 40% of the total intensity for Na^{23} with a nuclear spin of 3/2. With a further increase in concentration, also the central line was weakened, due to second-order quadrupcle effects. These effects became evident at 3 mole% of KCl and 10 mole% of NaBr. For AgCl impurities, no decrease in the intensity of the central line was observed. The first parts of the curves $J/J_0=f(\varepsilon)$ can be Card 2/4



Distortion of the NaCl ...

26700 s/056/61/041/005/015/038

approached by straight lines. From their slope, the number n of Na ions within the critical sphere (radius R) can be determined. The following P = 16.7 8 1/1 200 firstion of the following R = 16.7 A. J/J_0 as a function of the total volume no of the critical spheres obeys a hyperbolic law and, at low impurity concentrations, is independent of the nature of the impurity. $|\Delta a|/a_0 = f(nc)$ is independent of the nature of the impurity and has a linear course. The elastic lattice distortions are determined from the components of the S tensor which interrelates E and the elastic lattice deformations. The frequency shift of the satellite lines for quadrupole interaction is given by $\Delta y = 3eQ(2m-1)y_{HH}/4I(2I-1)h$, where I is the nuclear spin, Q the nuclear quadrupole moment and φ_{HH} is the component of the field gradient in the direction of \vec{H} . With this formula, y_{HH} can be determined for nuclei situated at the boundary of the sphere. YHH was found to be about 10 12 CGSE units. From this, the deformation at the boundary of the critical sphere was determined to be of the order of 10%. The relative Card 3/4

Distortion of the NaCl...

26700
S/0500:/041/005/015/038

B102/B108

B102/B10

s/181/62/004/009/037/045 B104/B186

1:891

Lemanov, V. V., and Smirnov, I. A.

AUTHORS:

Thermal conductivity of NaCl single crystals with Ca

impurities TITLE

Fizika tverdogo tela, v. 4, no. 9, 1962, 2611 - 2613

TEXT: If positive ions in the NaCl lattice are replaced by Ca2+, then positive cation vacancies are formed. At room temperatures and below, Ca2+-vacancy dipoles exist occurring in larger complexes. The effect of the decay of these complexes on the thermal conductivity of the crystals is studied when the temperature is increased. The NaCl-CaCl crystals were grown from melts of pure substances by the method of Kiropulos. The heat conductivity was measured in the range, between 400 and 800 K with pure NaCl and KCl single crystals used as standards. Results: Ca impurities cause a slight increase in the thermal resistivity of the crystals. In the range 100 - 300 K the additional resistivity caused by the impurity is independent of temperature. When the temperature rises

Card 1/2

Thermal conductivity of NaCl...

S/181/62/004/009/037/045 B104/B186

to above 300°K the additional resistivity increases: $SR = Al^{(-u/kT)}$, where u = 0.2 ev. Below 300°K the additional resistivity is produced by phonon scattering from the complexes. Its increase above 300°K is associated with the decay of the complexes into dipoles. The cross section of phonon scattering from the dipoles is by approximately one order of magnitude higher than that of the scattering from neutral Ag impurities. There are 2 figures.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of

Semiconductors AS USSR, Leningrad)

SUBMITTED: May 17, 1962

Card 2/2

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929210011-6

s/056/62/043/006/009/067 B154/B102

AUTHORS:

Card 1/2

Kornfel'd, M. I., Lemanov, V. V.

On local distortions of a crystal lattice by impurity ions

TITLE:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43,

PERIODICAL:

no. 6(12), 1962, 2021 - 2023

TEXT: The dimensions of the distorted zones around Ag, Br, K impurities in the NaCl lattice have already been investigated by M. I. Kornfel'd and V. V. Lemanov (Zhett, 41, 1454, 1961) by way of the critical sphere with the impurity ion in the center and fixed deformation on its surface. For I, Li+, Rb+ the distorted-zone dimensions were determined in this paper. Basing on the theory of elasticity of continuous media, the range R of the deformation & from the center of the sphere is given by $\varepsilon = \varepsilon_0 r_0^3/R^3$ where $\varepsilon_0 = ((r_n - r_0)/r_0)$ is the deformation on the sphere's surface, r_0 is the radius of a hollow sphere in the medium and r_n is the radius of a little sphere inserted in it. & depends on the relation between the elastic properties of the medium and the little sphere. If a

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929210011-6"

On local distortions of ... s/056/62/043/006/009/067 molecule consisting of the impurity ion and six neighboring ions with opposite sign is assumed to form the sphere, then the elastic properties of the crystals considered are nearly equal and $\infty \approx 1/2$ in all cases. The values of r_n , which are the ionic distances are taken from the Index to X Ray Powder Data File (ASTM, Philadelphia, 1959). For ro(NaCl) 2.8201 A is obtained. Thus the authors determined the following values for IEI.10³:0.18 (Ag⁺), 0.24 (Br⁻), 0.24 (Li⁺), 0.19 (K⁺), 0.23 (I⁻), 0.20 (Rb⁺). Good agreements between the calculations and experimental data are observed when the ionic distances of the corresponding lattice are used as characteristic dimensions. If the impurity ion is assumed to form the sphere then the results calculated will disagree with experiment. There is ASSOCIATION: Institut poluprovodnikov Akademii nauk SSSR (Institute of Semiconductors of the Academy of Sciences USSR) SUBMITTED: July 7, 1962 Card 2/2

LEMANOV, V. V.

Dissertation defended for the degree of Candidate of Physicomathematical Sciences at the Technical Physics Institute imeni A. F. Ioffe in 1962:

"Local Distortions of the Crystalline Lattice Near Impurity Ions."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

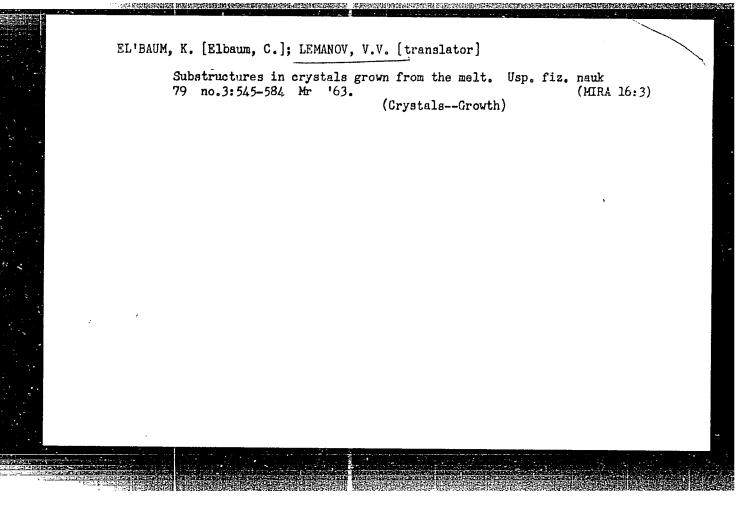
LEMANOV, V.V.; SMIRNOV, I.A.

Thermal conductivity of sodium chloride single crystals with a calcium admixture. Fiz. tver. tela 4 no.9:2611-2613 S '62.

(MIRA 15:9)

1. Institut poluprovednikov AN SSSR, Leningrad.

(Salt—Thermal properties)



L 633L7-65 LEC(b)-2/EFF(c)/EFF(1)/T PI-L LIP(c) CG/WY

ACCESSION NR: AP5017340

UR/0181/65/007/007/2249/2252

AUTHOR: Korufel'd, H. I.; Lemanov, V. V.

26

TITLE: Compensation of bivalent metal impurities in alkali halide crystals

SOURCE: Fizika tverdogo tela, v. 7, no. 7, 1965, 2249-2252

TOPIC TAGS: nuclear magnetic resonance, crystal impurities

ABSTRACT: In studying the line width of Na²³ nuclear resonance in NaCl as a function of temperature, a compensation effect was observed between bivalent cation impurities and bivalent anion impurities. The temperature dependence showed a very sharp reduction of line width in a certain temperature interval, which was attributed to diffusion of Na⁴ ions. Theory indicates that the temperature at which line narrowing occurs depends on the concentration of cation vacancies: the higher the concentration the lower the temperature. The introduction of monovalent impurities did not change the curve of line-width vs. temperature. The bivalent impurities Ca^{2†} and CO²₃, however, moved the curve toward lower and higher temperatures respectively, by amounts which increased with concentration. Theoretical calculations are made of cation vacancy concentrations for these impurities, and are used to ac-

Card 1/2

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count for a Orig. art.	ll experimental resul has: 2 equations, 2	ts. <u>"A. S</u> figures, l	. Fedorov took table.	an interest in t	his work".
ASSOCIATION tion Engine	: Leningradskiy inzh ering Institute)	enerno-str	oitel'nyy insti	tut (Leningrad C	onstruc-
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St. A. Lander, S. C. Martin, Phys. Lett. 1975.		机铁铁铁铁铁矿铁铁铁			

IJP(c) EWT(m)/EPF(n)-2/EWP(t) SOURCE CODE: UR/0181/66/008/002/0615/0616 AP6006872 ACC NR: AUTHOR: Lemanov, V. V. ORG: Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR) TITLE: On distortions of KCl crystals by impurities SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 615-616 TOPIC TAGS: potassium chloride, nuclear magnetic resonance, crystal impurity, crystal lattice distortion, elasticity theory ABSTRACT: This is a continuation of earlier studies of distortion of NaCl and NaF crystals by impurities (ZhETF v. 43, 2021, 1962 and others). The present investigation was devoted to KCl crystals grown from the melt by the Kiropoulos method. The intensity of the nuclear magnetic resonance absorption line of Cl35 was measured as a function of the impurity concentration with RYa 2301 apparatus. It was observed during the measurements that the intensity of the resonance in pure crystals grown from pure KCl is much lower than the theoretical intensity. This pointed to the presence of some impurities that distort tha lattice. The presence of the impurity was confirmed by chemical analysis. Double recrystallization of the KCl, which reduced the Na impurity to one quarter of its initial value, nearly Card 1/2

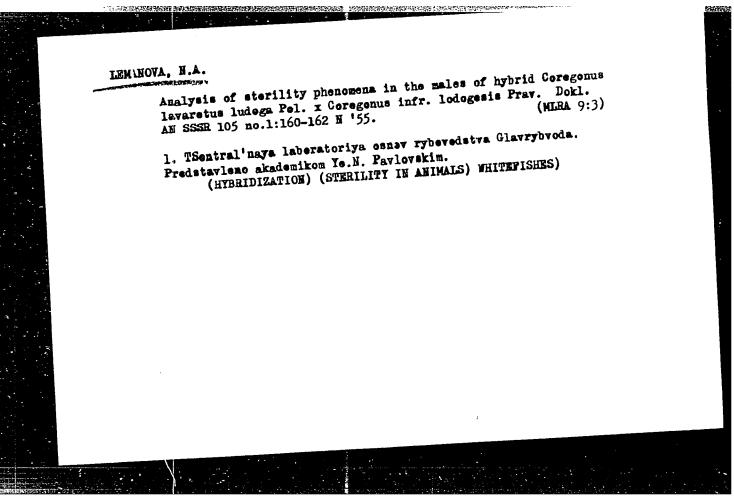
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AP6006872 ACC NR:

doubled the resonance intensity. The experimentally determined dependence of the Cl35 resonance intensity on the impurity concentration was used to determine the number of Cl nuclei inside the distorted zone near the impurity ion. The relative displacements of the nearest neighbors of the impurities and the relative lattice deformation on the boundary of the distorted zone were calculated by elasticity theory. The lattice deformation was found to be practically constant and independent of the type of impurity, in agreement with the definition of the distorted zone given in the earlier papers. This confirms the applicability of elasticity theory for calculation of the distortion of the lattice by impurities, although some discrepancy arises in the case of the ions F and Na⁺, the reasons for which were discussed by V. S. Mandel (FTT v. 7, 3130, 1965). Orig. art. has: 1 formula and 1 table.

ORIG REF: 003 SUBM DATE: 27Sep65/ SUB CODE: 20/

Card 2/2 BL



Mechanizing Surface Brosching", p. 92, (MECHANK, Vol. 27, No. 3, Mar. 1054, Meranawa, Polend)

SO: Monthly List of East European Accessions, (MEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

MOYCHO, W.; GUBANSKI, M.; FOMAIDIS, B.; LEMANSKA, M.; WAJSBARD, E.

The occurrence of tobacco mosaic virus in tomatoes in Lodz and its ineighborhood. Postepy nauk roln 7 no.1:79-82 Ja/F '60. (EEAI 9:10) (Poland--Tomatoes) (Mosaic disease) (Viruses)

(Viruses)

MIZERA, Antoni, mgr inz.; LEMANSKI, Wladyslaw, mgr inz.

New exhibition hall on the grounds of the International Poznan Fair. Inz i bud 19 no.2:55-59 F '62.

1. Biuro Projektow Budownictwa Przemyslowego, Poznan.

CZECHOSLOVAKIA / General and Specialized Zoology. Insects. Forest Pests

: Ref Zhur - Biol., No 17, 1958, No 78360 Abs Jour

Lemarie, J. Author

: Contribution to the Knowledge of the Mode of Inst

Life of the Pine Moth Exteleia (Herigia) Title

Dodecella L.

: Zool. listy, 6, No 3, 225-233 Orig Pub

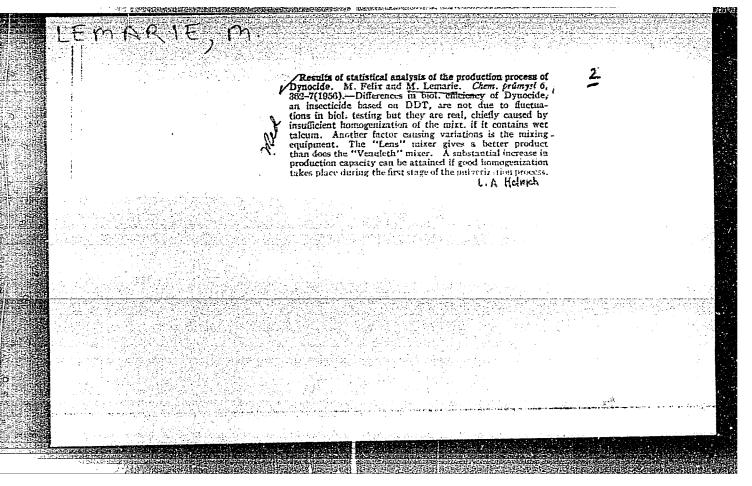
: The pine moth, a pest of the buds in the pine sapling plantations of Bzenetsk (Czechoslovakia), Abstract

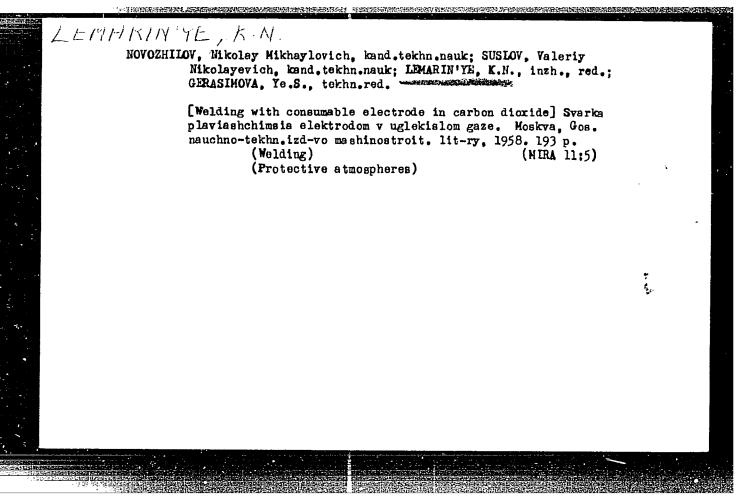
damages cultures which are weak and founded on poor soils. It often attacks the pine-trees damaged by the European pine-shoot moth. From July to April, the caterpillars of the bud-and-shoot moth mine the needles. Mines (10-15mm.

P

Card 1/3

CIA-RDP86-00513R000929210011-6" **APPROVED FOR RELEASE: 07/12/2001**





ACCESSION NR: AP300364		8/0135/63/000/007/0043/0	
AUTHORS: Petrov. A. V. (Engineer)	, (Candidate of Technical So	iences); Lenarin'ye, K. H.	3
TITLE: All-Union State	Stendard 10157-62 "Argon, g	ascous, pure"	
SOURCE: Sverochnoye pr	oizvodstvo, no. 7, 1963, 43		
TOPIC TAGS: ergon, spe	cification, oxygen, nitroge	m, moisture	
ADORDIANS Assertance to	the new COST (All-Moton Ste	ate Standard) 10157-62, indust	rial
ABSTRACT: According w	ed in grades A, Band C. Gr	has a must be QO OOK more and	
ergonymill be distribut	ing the Register of or	and a most od //e/// pare and	
must contain no more th	ian 0.003% oxygen and 0.01% i	itrogen. Grade B must be 99.	96%
must contain no more the pure, with no more than pure, with no more than	uan 0.003% oxygen wald 0.01% r 1 0.005% oxygen and 0.04% ni 1 0.005% oxygen and 0.10% ni	ntrogen. Grade B must be 99.6 brogen. Grade C must be 99.90 brogen.∧Moisture content in a	96% 1
must contain no more the pure, with no more than pure, with no more than grades must not exceed	uan 0.003% oxygen who 0.01% in 0.005% oxygen and 0.04% in 1.0.005% oxygen and 0.10% in 1.0.03 g/cm ³ . Recommendations	itrogen. Grade B must be 99.6 progen. Grade C must be 99.90 progen. Moisture content in a s are made as to which grade	965 \$ 11
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LEMARINYE, K.N.

AUTHORS:

Dianov-Klokov, V.I., Candidate of Physical-

67-58 -2-11/26

Mathematical Sciences, Kolbasov, V.A., Engineer,

Lemarin'ye, K.N., Engineer

TITLE:

The Spectral Analysis of Nitrogen in Argon (Spektral'noye

opredeleniye primesey azota v argone)

PERIODICAL:

Kislorod, 1958,

Nr 2, pp. 49-51 (USSR)

ABSTRACT:

It is said in the introduction that this method has proved to be of practical use in Soviet plants. However, the apparatus used for this purpose have certain disadvantages as a result of which inaccurate results are obtained in individual cases. In order to prevent this, it is recommended in the course of this paper that the light sensitiveness of this apparatus be increased by summation of loads. In this case the individual pulses of the photocurrent are collected during the period of from 10-20 seconds in loading condensers. Meanwhile, the luminescent spot produces a straight line, the "arrow", the angle of which can easily be computed. The oscillographic tube "8 L039" has a screen with afterglow, , so that the "arrow" can be conserved for 1 minute. Centering of the

Card 1/2

beam is brought about by means of two revolving deflection coils.

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The Spectral Analysis of Mitrogen in Argon

67-58-2-11/26

Rough adjustment of the two analyzer channels is carried out by switching over the leading condensers, and fine adjustment is brought about by diaphragming the slots before the photomultipliers. In the rectifier of the feed block ferroresonance stabilization is applied. Selenium rods (ABC-7-3P) serve as valves. In the case of particularly pure gases it is recommended to use a collection of suitable filters instead of spectrographs. There are 3 figures, 3 references, all Soviet.

AVAILABLE:

Library of Congress

1. Nitrogen—Spectrum 2. Argon—Applications 3. Laboratory

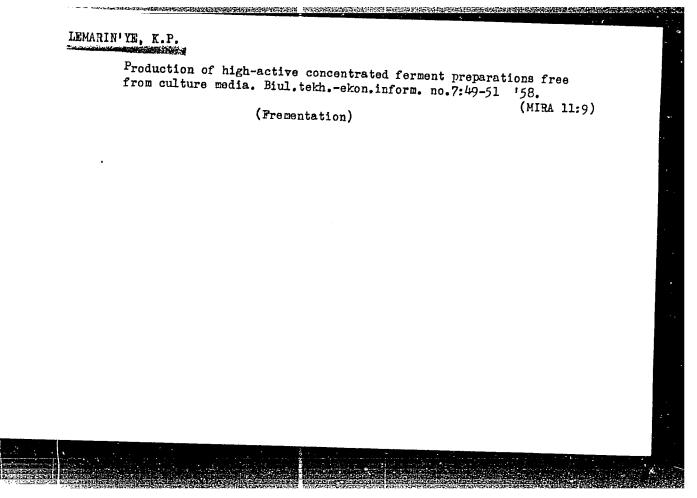
equipment-Operation

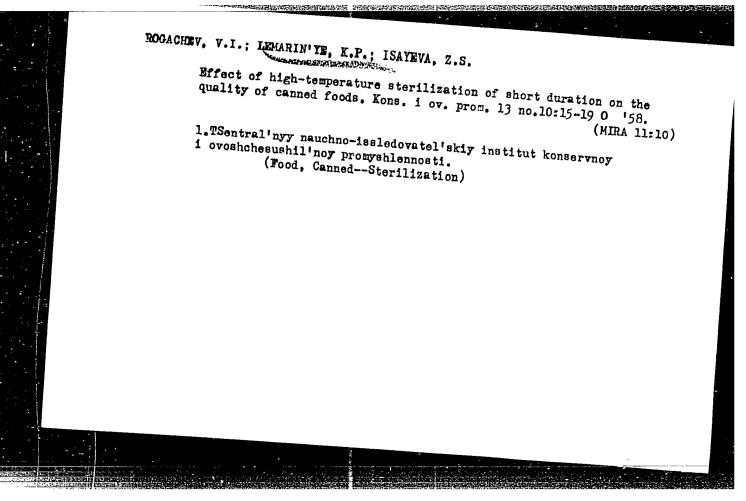
Card 2/2

LEMARIN'YE, K. P.

"Development of a Rational Technology and the Determination of Necessary Apparatus for the Production of Mushroom Mold Enzyme Concentrates." Cand Tech Sci, Moscow Technological Inst of the Food Industry, Min Higher Education USSR, Moscow, 1955. (KL, No 18, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).





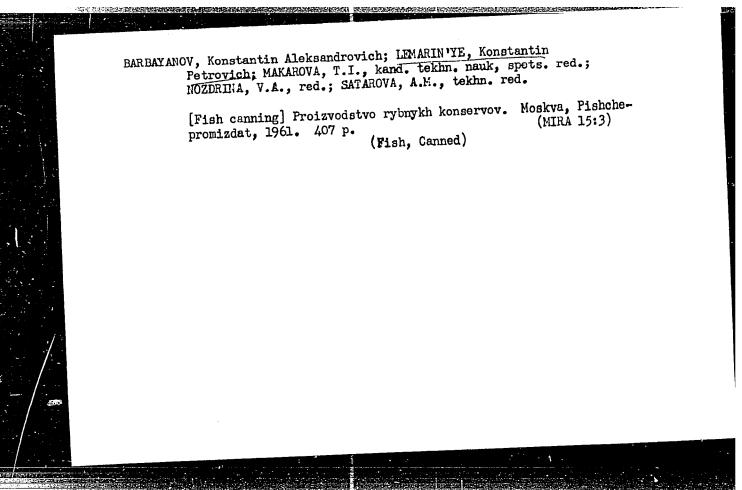
YASTREBOV, S.M.; MASSOVER, A.M.; LEMARINIYE, K.P., kand. tekhn. nauk, red.;
BELIKOVA, L.S., red.; KISINA, Ye.I., tekhn. red.

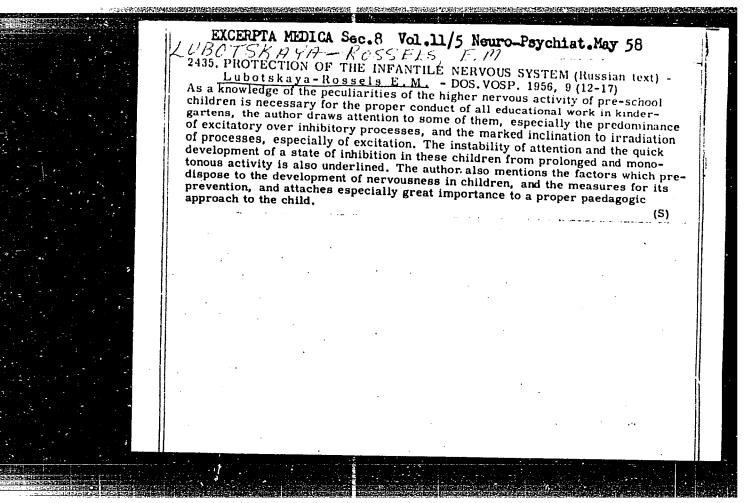
[Sterilization of canned food] Sterilizatsiia konservov. Pod red.

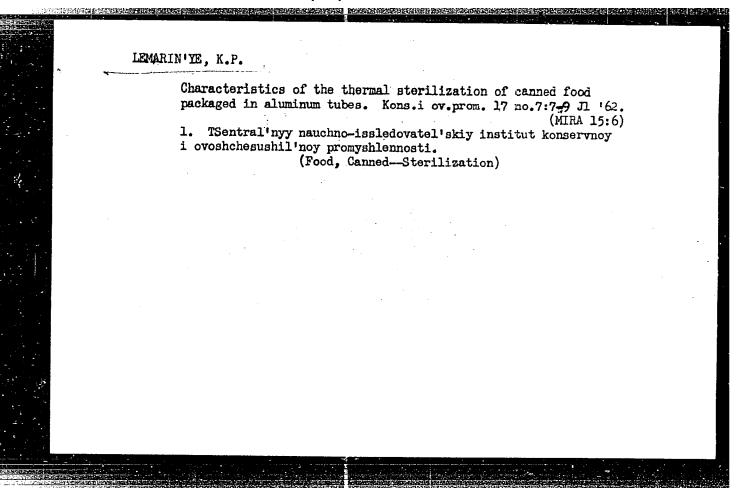
K.P.Lemarin'e. Moskva, Pishchepromizdat, 1961. 67 p.

(MIRA 14:9)

(Fcod, Canned--Sterilization)





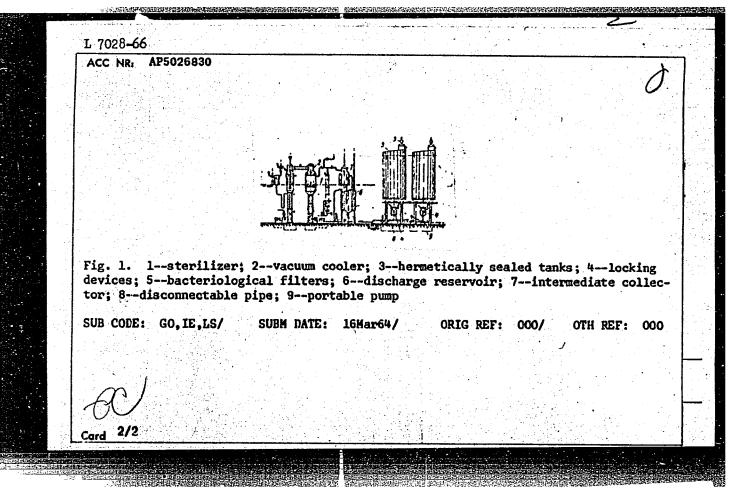


LEMARIN'YE, K.P.; ROGACHEV, V.I.; GORDON, Yu.I.

Aseptic canning of food products. Kons. i ov. prom. 17
no.8:14-18 Ag '62. (MIRA 17:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut konservnoy
i ovoshchesushil'noy promyshlennosti.

ACC NR. APRAUTHOR: Leg Petryanov-Sc ORG: none	naminius K D	SOURCE CODE: UI ny, B. V.; Chebalak, A. ov, P. I.; Farber, L. E	ለ/0286/65/000/017/0116 ሁላ N.; Miroshkin, F. Ya .; Khalupnaya, L. I.	10116 14 31
TITLE: An i	nstallation for aseptorage tanks. Class 53	tic preservation of liq	tપ uid and puree-type fo	odstuffs
SOURCE: Byu TOPIC TAGS:	illeten' izobreteniy i food technology, foo	i tovarnykh znakov, no. od product machinery, fo	17, 1965, 116	
ABSTRACT: T servation of unit consists ficate No. 10 devices made The unit is of sterilized pro- termediate contion of this table pipe he	his Author's Certific liquid and puree-con s of interconnected s 68108, a vacuum coole according to Author' designed for continuo roduct. The unit is collector connected to installation in which	cate introduces: 1. An sistency food products terilizer pipelines mader, hermetically sealed as Certificate No. 16810 us operation and for prequipped with a discharathe reservoir and to the connections are simply sealed tanks and the pading the food product UDC: 664.	installation for aser in large storage tank le according to Author tanks equipped with 19, and bacteriological eventing admission of ge reservoir and with he sterilizer. 2. A ified by using a discovacuum cooler, and a s from the tanks.	s. The 's Certi- locking il filters any un- an in-



L 41032-65 EM (d)/EM (m)/EMP(w)/T-2 EM

ACCESSION NR: AP5008577

AUTHORS: Zayov, M. A.; Razin, G. M.; Krylov, V. M.; Volkov, A. F.; Timoshin,
Yo. P.; Storikov, V. P.; Gozulov, S. A.; Lonasov, V. B.; Mrolyubov, G. P.

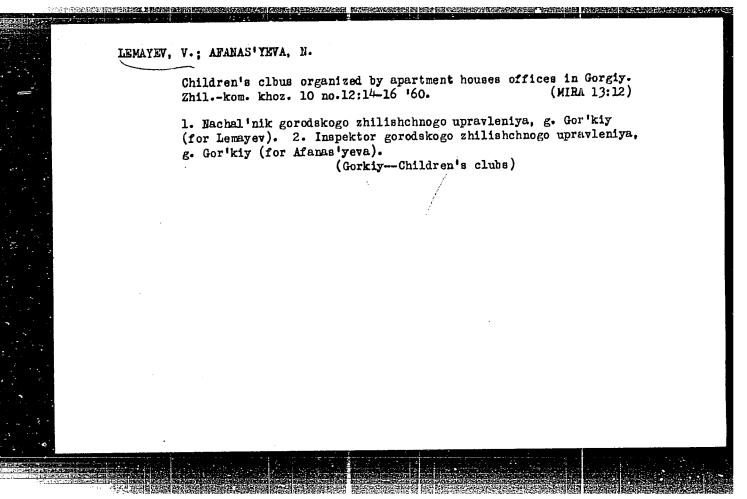
TITE: Test stand for creating impact overloads. Class 62, No. 169k07

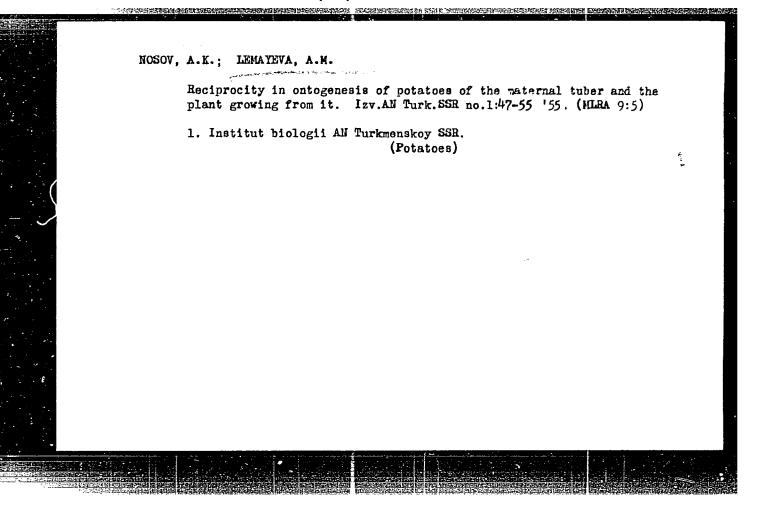
SOURCE: Byulloton' ixobroteniy 1 tovarnykh snakov, no. 6, 1965, 113

TOPIC TAGS: impact testing

ABSTRAGT: The stand contains a truss with controlling cables, a hoisting overloads! The stand contains a truss with controlling cables, a hoisting overloads! The stand contains a braking mechanism, shock absorbars, and instruments for a cut-off mechanism, a braking mechanism, shock absorbars, and instruments for a cut-off mechanism, a braking mechanism shock absorbars, and instruments for measuring the platform drop rate. To increase the safety of the experiment and to acclude the effect of the prescribed height on the free fall of the platform, to exclude the effect of the prescribed height on the free fall of the platform, pig. 1 on the Enclosure). It consists of a transmitting saleym connected by a flexible shaft to the shaft of an electric tackle drum, a receiving saleym placed in the frame of the mechanism, and a mechanism reductor. A stiting indicator with a contact, a height indicator scale, C., and 1/3

L 41032-65 ACCESSION NR: AP5008577	<u> </u>	the elec	derice .
and a stop relay are or tackle. Orig. art. has	nnected in the magnetic 1 l diagram.	starter direuit of the elec	
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Card 2/3		ting the second of the second	





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USSR/Physiology of Plants - Photosynthesis.

I.

Abs Jour

: Ref Zhur - Biol., No 15, 1958, 67796

Author

: Lemayeva, A.M.

Inst

: Academy of Sciences TurkmSSR.

Title

: Photosynthesis in Cotton with Relation to Its Development.

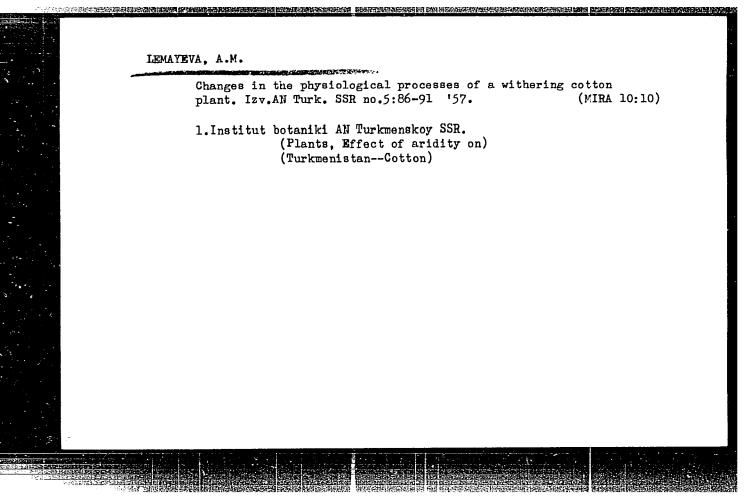
Orig Pub

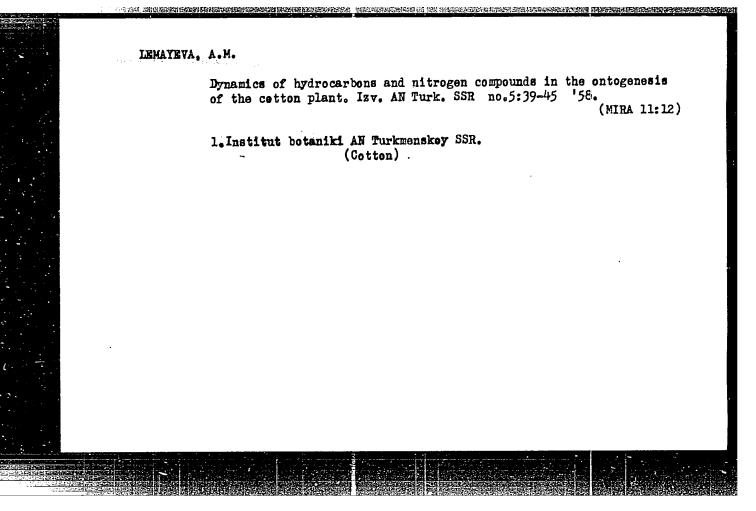
: Izv. AN TurkmSSR, 1957, No 1, 59-63.

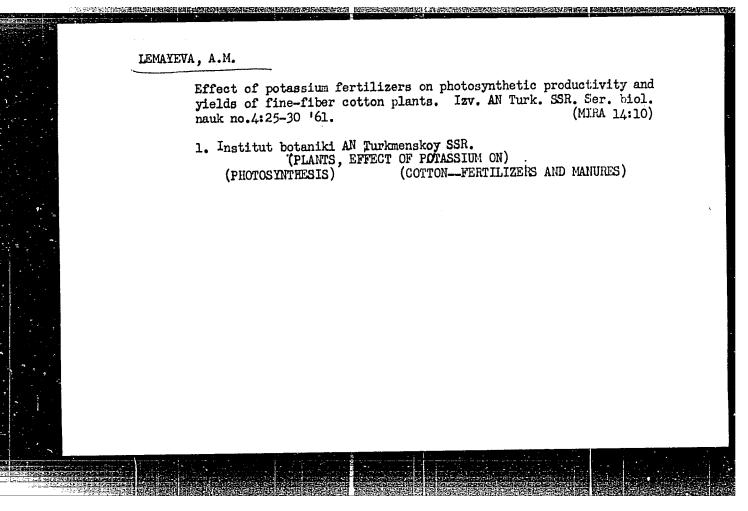
Abstract

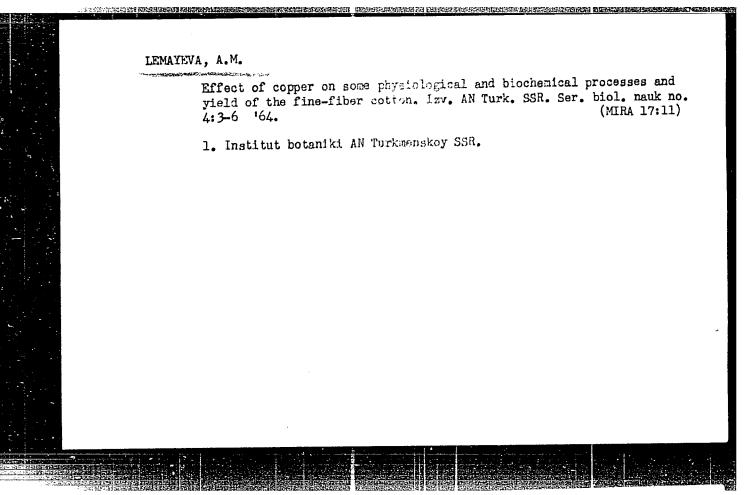
: The intensity of photosynthesis in cotton was studied by Nosov's gravimetric method (Izvestiya AN TSSR, 1951, No 3). The 24-hour course of photosynthesis was determined for the budding, flowering, and maturing phases. The degree to which the stomac were open was determined by Molish's method. The photosynthesis intensity was studied simultaneously in the leaves of the lower, middle, and upper layers of the main stalk. The maximum photosynthesis intensity was observed between 6 o'clock and 11

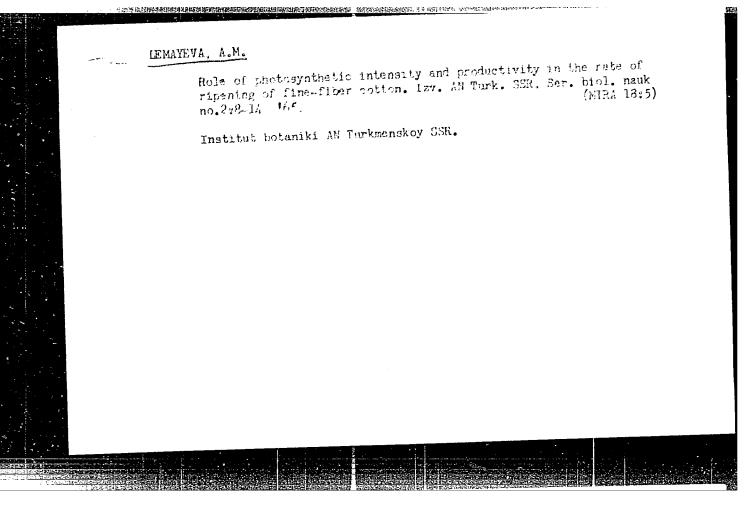
Card 1/2











IEMAZHIKHIN, B. K. Biophysics Lab, Physiol Inst im I. 7. Pavlov, AS USSR

"Molecular Structure of Oriented Proteins in Tissues" SOURCE: Dok AN, Vol 70, No 4, 1950

USSR/Human and Animal Flysiology - Blood. Formed Elements.

T-3

: Ref Zhur - Biol., No 18, 1958, 84011 Abs Jour

Author

: Lemzhikkin, B.K., Frank, G.M.

Tnst

: Institute of Bilogical Physics, AS USSR

Title

: Determining the Size of Erythrocytes in Connection with Problems of Biologic Effects of Ionized Radiation by

Methods of Light Difraction.

Oric Pub

: Tr. In-ta biol. fiz. AN SSSR, 1955, 1, 276-287

Abstract

Blood was taken from ear veins of rabbits. Then, it was dissolved in an isotonic Ringer solution, admixed with sodium citrate and placed into a 0.1 mm deep glass cuvette. In order to addieve better diffraction, erythrocytes (E) must adhere to the bottom of the cuvette after they have set (8-10 minutes). The animals were irradiated with 800 r. Erythrocyte counts pointed to a deepseated reactive

Card 1/3

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929210011-6"

USSR/Human and Animal Physiology - Blood. Formed Elements.

T-3

: Ref Zhur - Biol., No 18, 1953, 84011 Abs Jour

leucopenia. Observations showed that 2 hours after irradiation and within an interval of 3 days, E become somewhat smaller in size. After the 10th day, E size increased progressively (7.2-7.4 M) and reached 7.5-7.6 M on the 15th day. At this point, the clearly marked diffraction disappeared, a fact which bore testimony of a far advanced anisocytosis. E difraction indicators, existing 3 days before irradiation, served as controls. These data were obtained by diffraction microphotography. A more practical arrangement which consists in the most simple optical system using photoelements and Galvonometers, permits to determine E sozes according to ring diameters, whereas the degree of anisocytosis may be approximately determined according to the correlation of maximum and minimum photoelectric currents. Control experiments with preparations of diversified solution strengths (as compared to norm), showed the margin of error to be insignificant.

LEMAZHIKHIN, B. K. and G. M. Frank

Determination of the Dimensions of Erythrocytes in Connection with the Problem of Biological Action of Ionizing Radiation Trudy Instituta Biologicheskoy Fiziki, No 1, 1956 S916, 5 Mar 1956, p49

Describes a method to be used in diagnosing injury produced by ionizing radiation.

CIA-RDP86-00513R000929210011-6" APPROVED FOR RELEASE: 07/12/2001

507/20-128-1-50/58 Razumova, L. L., Lemazhikhin, B. K., Lebedev, L. A., 47(4)AUTHORS: Pen'kina, V. S. Some Differences Observed in the X-Ray Study of Keratin From TITLE: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 186-189 Feathers PERIODICAL: The macro structure of coverts and supporting feathers (wingfeathers and rudder-feathers of the tail) shows certain differences depending on the function of the concerned feathers. ABSTRACT: The kind of flight also has a certain influence on the structure. The authors tried to answer the question whether the function of the feathers also has an influence on the molecular structure. Characteristic features of the molecular structure can be investigated by means of an X-ray diffraction method. X-ray photographs made (with a sufficient solvent power) of the keratin of feathers (Fig 1) are characterized by clearness and richness of reflexes unusual for fibril albumins. The authors succeeded in getting some information regarding the dependence of the keratin structure on the existence of amino acids and Card 1/3

\$507/20-128-1-50/58\$ Some Differences Observed in the X-Ray Study of Keratin From Feathers

also with regard to the role of S-S and hydrogen compounds in the structural packing. X-Ray examinations of three test series were carried out by means of X-ray cameras with collimator with a diameter of 0.1 mm. A micro tube for focusing of the Institut biofiziki AN SSSR (Institute of Biophysics AS USSR) was used. The X-ray was directed perpendicularly on the surface of the feathers. The investigations showed that the structure of wing feathers on non-flying birds (ostrich) is the same as that of coverts of flying birds. It is not as orderly as the structure of the wing feathers strained by flying. This fact proves a connection between the molecular structure of feathers and their function. A dependence of the molecular structure on the kind of flight was not found. The authors of the Zoologicheskiy muzey Moskovskogo gosudarstvennogo universiteta (Zoological Museum of the Moscow State University), Professor N. A. Gladkov, A. M. Sudilovskaya, M. V. Vasil'yeva, the staff members of the Institut morfologii zhivotnykh (Institute of the Morphology of Animals), Professor G. S. Shestakov, T. L. Borodulin, and the staff members of Moskovskiy zoopark (Moscow Zoological

card 2/3

SOV/20-128-1-50/58

Some Differences Observed in the X-Ray Study of Keratin From Feathers

Gardens), R. I. Afonskaya, M. P. Kagayev, for their assistance in selecting the specimens. There are 3 figures and 7 ref-

erences.

Institut biologicheskoy fiziki Akademii nauk SSSR (Institute ASSOCIATION:

of Biological Physics of the Academy of Sciences, USSR)

April 23, 1959, by V. N. Kondrat'yev, Academician PRESENTED:

April 22, 1959 SUBMITTED:

Card 3/3

CIA-RDP86-00513R000929210011-6" **APPROVED FOR RELEASE: 07/12/2001**

Design of a demountable microfocus X-ray tube with a variable focus. Prib.i tekh.eksp. no.1:136-138 Ja-F '60. (MIRA 13:6)

1. Institut biofiziki AN SSSR. (Electron tubes)

MEL'NIKOV, L.A.; RAZUMOVA, L.L.; LEMAZHIKHIN, B.K.

Mechanisms of muscle contraction (based on X-ray data). Dokl.
(MIRA 16:8)

AN SSSR 151 no.4:955-958 Ag '63.

1. Institut biologicheskoy fiziki AN SSSR. 2. Chlen-korrespondent
AN SSSR (for Frank). (MUSCLES-MOTILITY)

RAZUMOVA, L.L.; LEMAZHIKHIN, B.K.; MEL'NIKOV, 1.7.; FRANK, G.M.

X-ray study of atructural reconstructions in a striated muscle following changes in its length. Dokl. AN SSSR 157 no.3:688-691 Jl '64.

(MIRA 17:7)

1. Chlen-korrespondent AN SSSR (for Frank).

VAZINA, A.A.; LEMAZHIKHIN, B.K.; FRANK, G.M.

Discrete discersion of rays at small angles on a concentrated actin solution. Biofizika 9 nc.2:237 164.

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

VAZINA, A.A.; LEMAZHIKHIN, B.K., FRANK, G.M.

Discovery of an actin polymer differing from the F-form. Dokl.
AN SSSR 159 no.4.921-922 D '64 (MIRA 18:1)

1. Institut biologicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Frank).

RAZUMOVA, L.L.; MEL'NIKOV, L.A.; LEMAZHIKHIN, B.K.; FRANK, G.M.

Shortening glycerinated muscles with a damaged two-dimensional lattice of filaments. Biofizika 10 no.1:194 '65.

(MIRA 18:5)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

LYUDKOVERTY: E.G.: YEMMLTANOV, V.S.; LEMANHIKHIN, B.K.

Study of the optic properties of the squid giant axon relaxed and at different phases of excitation. TSitologia 7 no.4s
520-530 J1-Ag '65. (MIRA 1849)

1. Laboratoriya zhivykh struktor Instituta biologicnoskoy fiziki AN ${\sf SSSR}_{s}$ ${\sf Moskva}_{s}$

VAZINA, A.A.; LEMAZHIKHIN, B.K.; FRANK, G.M.

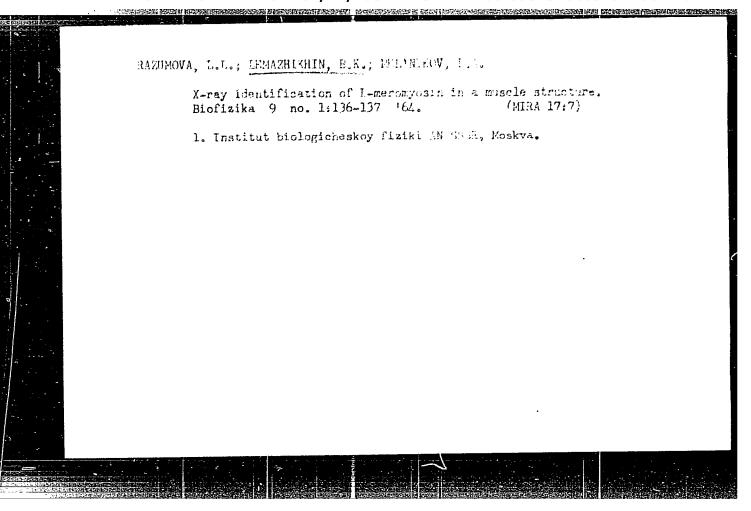
Liquid crystalline structure in nonoriented gels and P-actin solutions. Biofizika 10 no.3:420-423 '65. (MIRA 18:11)

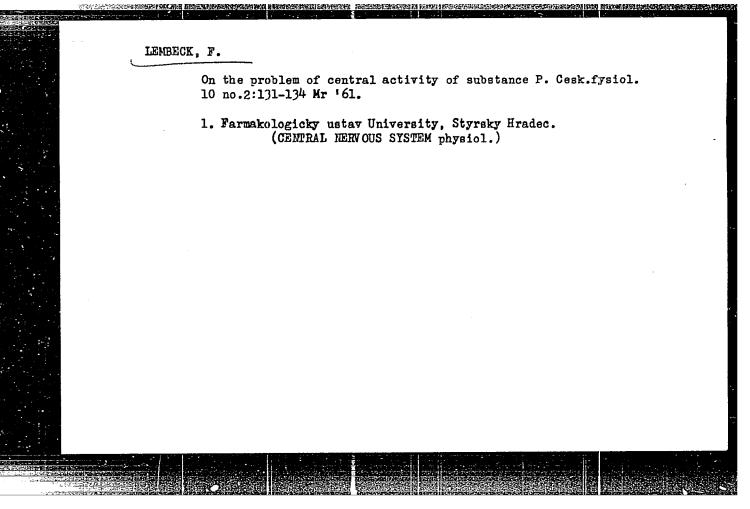
1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted July 6, 1964.

LEMAZHIKHIN, B. K., ANDREYEVA, N. S., and VIZINA, A. A. (USSR)

"The Employment of Narrow-Angle X-Ray Dispersion method for Examination of Protein Solutions."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961



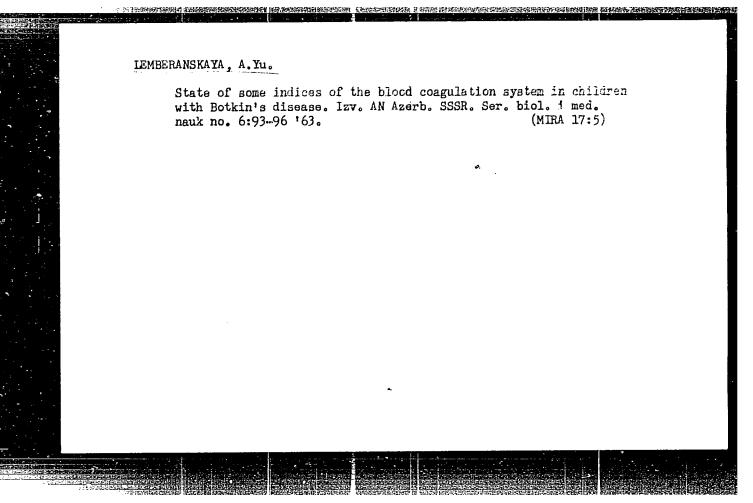


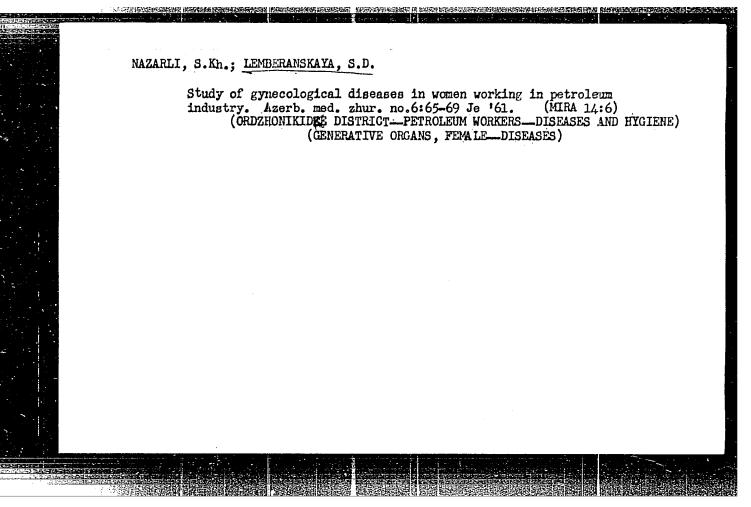
LEMBERANSKAYA, A.Yu.

Functional state of the blood coagulation system in healthy children. Azerbamed.zhur. 40 no.1821-25 Ja 763. (MIRA 1683)

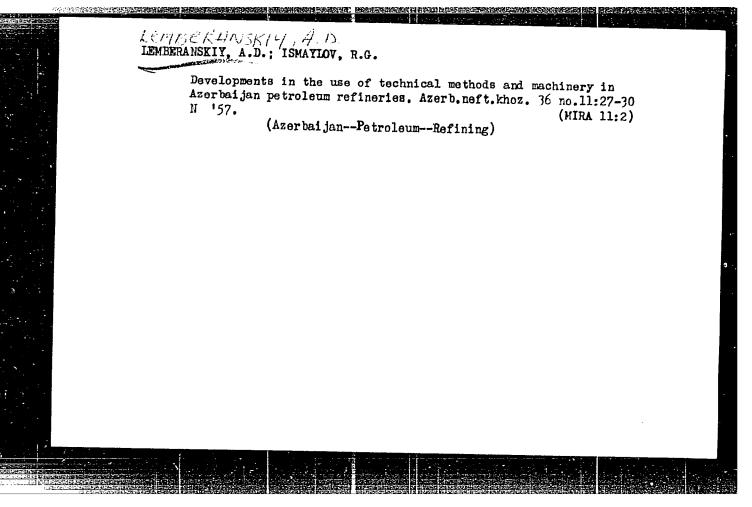
1. Iz kafeiry gospital noy pediatrii (zav. - zasluzhennyy deyatel nauki, dotsemt A.N. Amirdzhanov) i kafedry fakul - tetskoy khirurgii (zav. - chlen-korrespondent AN Azerbaydzhanskoy SSR, prof. F.A. Kfendiyev) Azerbaydzhanskogo meditsinskogo instituta imeni Narimanova (rektor - zasluzhennyy deyatel nauki, prof. B.A. Eyvazov).

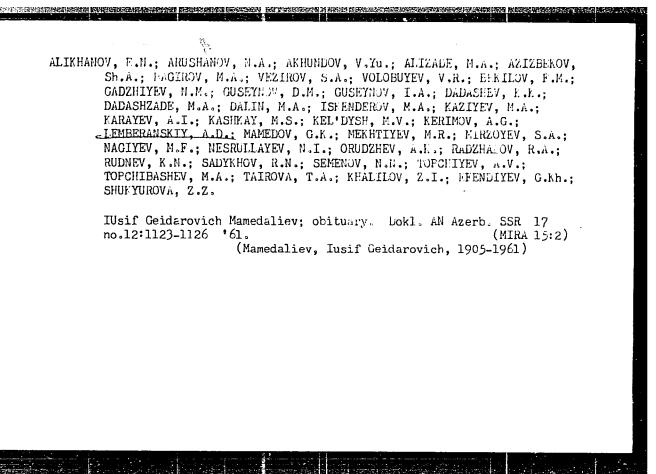
(HLOOD-COACULATION)





Æ	176%-63 EWP(j)/EPF(c)/EWT(m)/EDS AFFTC/ASD/APGC Pc-4/Pr-4 RM/M CCESSION NH: AP3004248 S/0152/63/000/006/0065/0067
A	UTHORS: Shikhalizade, P. D.; Lemberanskaya, S. I.
T	TIE: Preparation of polymeric petrochemical resins from light oil fractions btained by petroleum pyrolysis
s	CURCE: IVUZ. Neft' i gaz, no. 6, 1963, 65-67
T	OPIC TAGS: polymerization, polymer, unsaturated hydrocarbon, light oil, ferric
A	BSTRACT: In continuation of an earlier work or allier
f	pund that the activity of used ferric chloride-silica gel catalyst is increased mewhat by removing deposited polymer through washing with a harmonic increased
£	ills sharply with repeated use of the catalyst it a 26 9 12 5
ຄາ	orther experiments showed that aluminum chloride catalyst gives the best yield the lightest-colored resin. Orig. art. has: 2 tables.
	SOCIATION: Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova zerbaydzhan : Institute of Petroleum and Chemistry)
Cai	da //

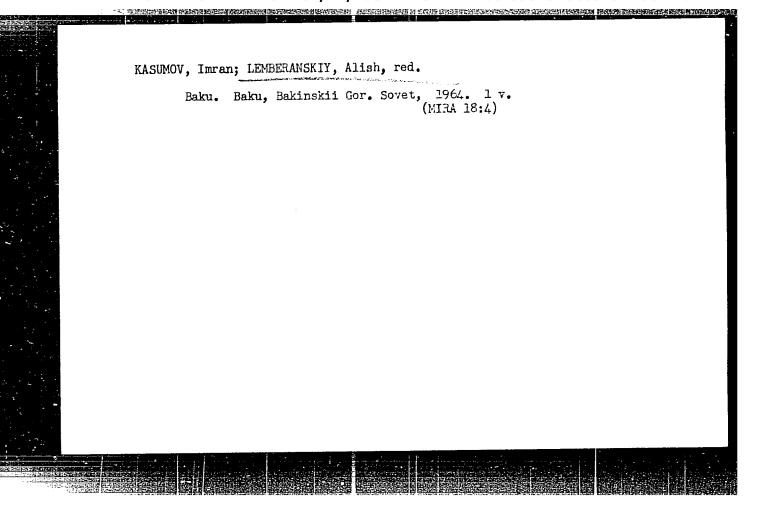




地名美国西班牙斯拉尔克克 医含亚亚氏氏征 医内脏性动物 化对抗性动物 计可能 医电影 医克里特氏病 经证券 医多种性 医克拉特氏病 医多种性皮肤 医多种性皮肤 医皮肤性皮肤 计分别

ALIKHANOV, E.N.; ARUSHANOV, N.A.; AKHUNDOV, V.Yu.: ALIZADE, M.A.; AZIZBEKOV, Sh.A.; BAGIROV, M.A.; VEZIROV, S.A.; VOLOBUYEV, V.R.; VEKILOV, F.M.; GADZHIYEV, N.M.; GUSEYNOV, D.M.; GUSEYNOV, I.A.; DADASHEV, K.K.; DADASHZADE, M.A.; DALIN, M.A.; ISKENDEROV, M.A.; KAZIYEV, M.A.; KARAYEV, A.I.; KASHKAY, M.S.; KEL'DYSH, M.V.; KERIMOV, A.G.; LEMBERANSKIY, A.D.; MAMEDOV, G.K.; MEKHTIYEV, M.R.; MIRZOYEV, S.A.; NAGIYEV, M.F.; NASRULLAYEV, N.I.; OGUDZHEV, A.K.; RADZHABOV, R.A.; RUDNEV, K.N.; SADYKHOV, R.N.; SEMENOV, N.N.; TOPCHIYEV, A.V.; TOPCHIBASHEV, M.A.; TAIROVA, T.A.; KHALILOV, Z.I.; EFENDIYEV, G.Kh.; SHUKYUROVA, Z.Z.

IUsif Geidarovich Mamedaliev. Azerb.khim.zhur. no.6:5-6 '61. (MIRA 15:5) (Mamedaliev, IUsif Geidarovich, 1905-1961)



LEMBERANSKIY, D. B.

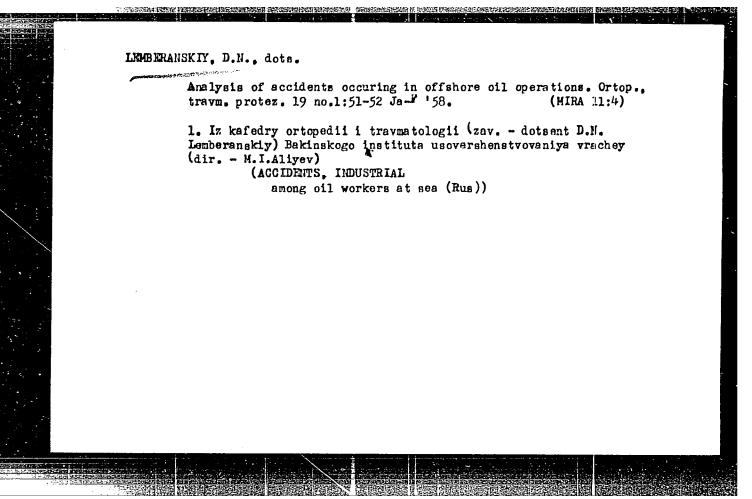
Lemberanskiy, D. B.: "The plastics of the amputation stump of the lower extremity in the light of its power of support and the prosthesis," (Preliminary report), TrudyIII Zakavkazsk. s"yezda khirurgov, Yerevan, 1948 (on cover: 1949), p. 366-373

SO: U-5240, 17 Dec. 53, (Letopis 'zhurnal 'nykh Statey, No. 25, 1949).

IEMBERAUSKIY, D.E., dotsent; SEIDOVA, A.A., mladshiy nauchnyy sotrudnik

Surgical troatment of fractures of the femur by nailing. Vest.khir.
77 no.10:133 0 '56. (MLFA 9:12)

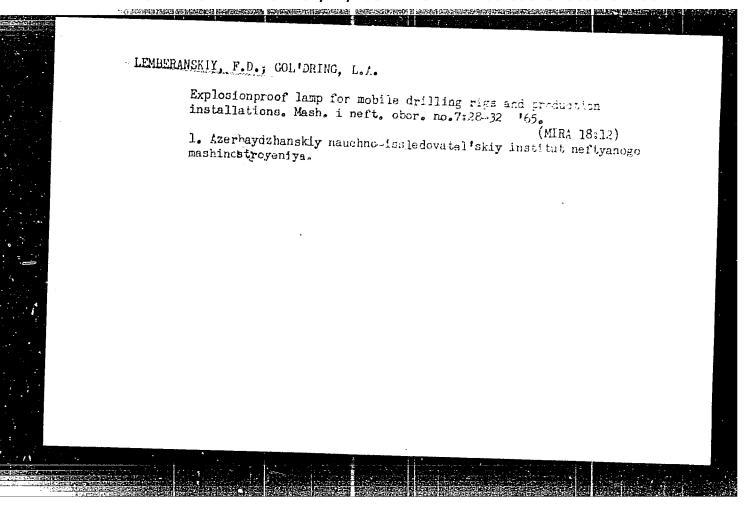
1. Iz Azerbaydzhanskogo instituta ortopedii i vosstanovitel'noy khirurgii, Baku.
(FEMUR—FRACTURE)



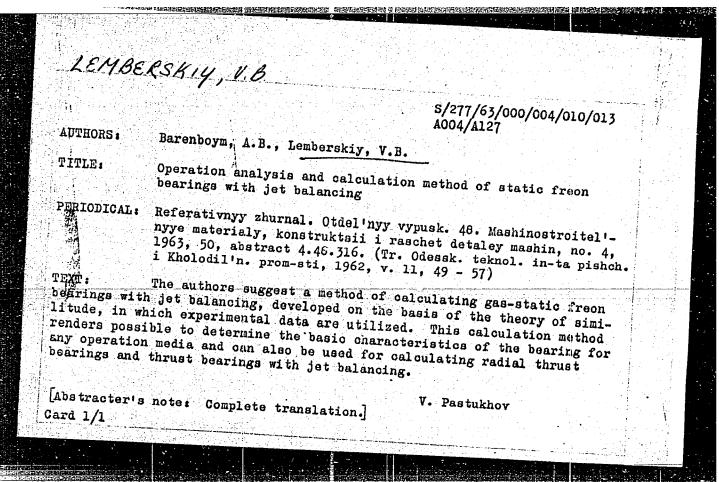
GOL'DRING, L.A.; LEMEERANSKIY, F.D.

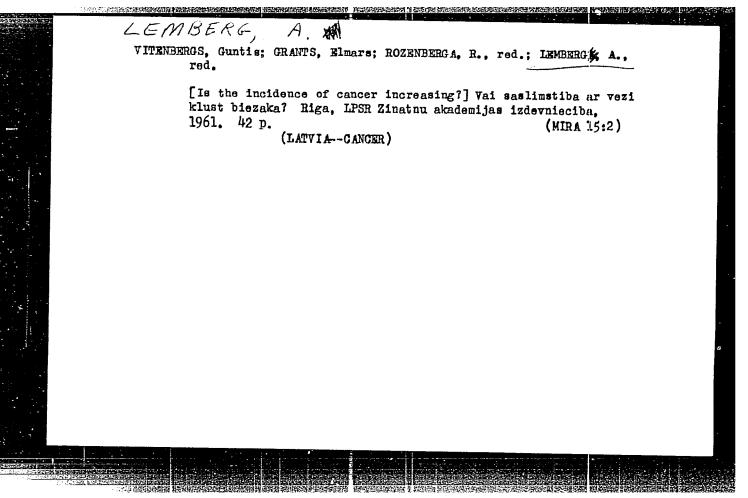
Electric power supply and lighting of power-driven hoisting units for the current repair of oil wells. Mash. i neft. obor. no.lls23-30 '64. (MRA 19c1)

1. Azerbaydzhanskiy nauchno=issledovatel'skiy institut neftyanogo mashinostroyeniya.



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LEMBERG, A. A.

29259 Puti i dostizheniya sovetskoy rentgenologii na Ukraine. Voprosy onkologii i rentgenologii, No 1-2, 1948, s. 185-94

SO: Letopsi' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

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29260 Metodika gistorentgeno-grafii v izuchenii legochnoy tkani pri norme i patologii.

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LEMBERG, Aleksandr Abramovich

(Ukrainian Inst for the Advanced Training of Physicians). Academic degree of Doctor of Medical Sciences, based on his defense, 25 November 1954, in the Council of the Naval Medical Academy, of his dissertation entitled: "Meastases of Cancerous Tumours into the Bone System (Clinico-Roentgenological and Hysto-Roentgenographical Study)."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 16, 2 Jul 55, Byulleten' MVO SSSR, No. 15, Aug 56, Moscow, pp 5-24, Uncl. JPRS/NY-537

USSR/Euman and Animal Physiology (Normal and Pathological) The Effect of Physical Factors. Ionizing Irradiation

Abs Jour : Ref Zhur Biol., No 6, 1959, 27197

Author : Lemberg, A.A., Fastyuchenko, O.V.

Inst: On Some Changes of Metabolism in Experimental Animals in Title: On Some Changes of Metabolism in Experimental Animals in

Irradiation of the Head with X-Rays.

Orig Pub : V sb.: Vopr. luchevoy terapii, Kiyev, Gosmedizdat USSR,

1956, 202-207

Abstract: The heads of rabbits were irradiated with doses of 700 r

and 500 r. After various time intervals, the animals were killed and the total amount of nucleic acids and, separately, RNA and DRNA in the brain was determined. In blood serum taken from the auricular vein before and after irradiation, the amount of ribonucleodepolimerase and desoxyribonucleinodepolimerase was determined. Even

and desoxyribonucleinodepolimerase and desoxyribonu

Card 1/2

- 173 -

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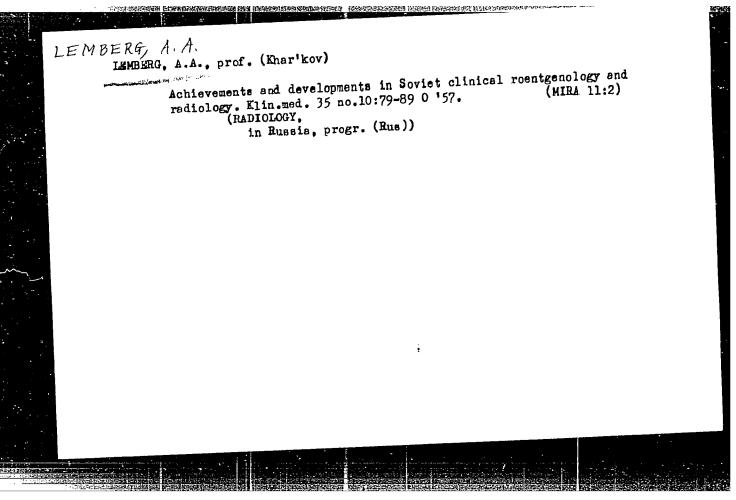
USSR/Human and Animal Physiology (Normal and Pathological)
The Effect of Physical Factors. Ionizing Irradiation

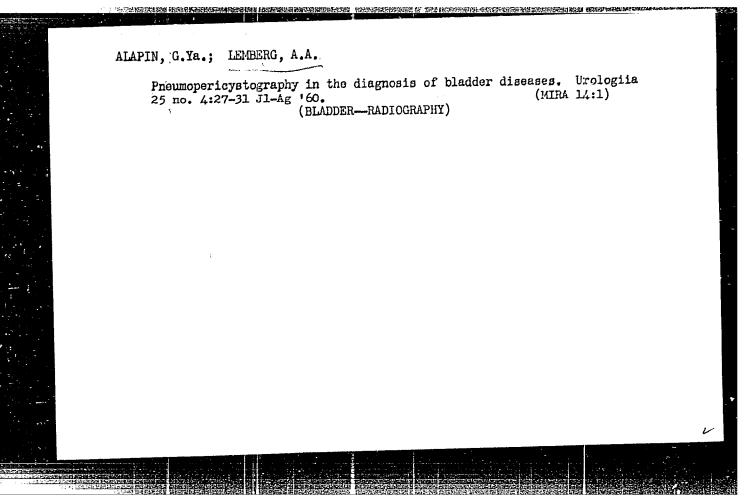
Abs Jour : Ref Zhur Biol., No 6, 1959, 27197

amount of RNA and DRNA in the brain did not exceed the limits of error. The activity of nucleodepolimerases in the blood decreased weakly 3-5 days after irradiation. -- B.K. Khuskivadze

Country CATEGORY	: USDR : General Problems of Pathology, rumors, Nervous System	
ABS. JOJE.	: RIBiol., %o. 12 1958, No. 56580	
ELTHON.	: Leading, r.A., Locanov, S.L., Genes, V.S.	
1672. 77746	The Toff ience of K-firadiat, on of the Bead of the Rit on the Levelopment of Transplanted Sareson	
ORIG. PUB.	: Collection: Vopr. Buchevoy Terapii. Siev. Commed- izdat USSR, 1956, 208-220	
TOARTEER	prior to transplantation of the mil sareona with 150-650 r influenced the growth of the tunor, precombinately by may of accelerating it	
	L.V.Gl. shevskaya	

U. USSR/General Problems of Pathology - Tumors. Immunity. : Ref Zhur - Biol., No 21, 1958, 98197 Abs Jour : Mazurenko, H.P., Lemberg, A.A. Λ uthor : Joint Effect of Smallpox Vaccine Virus and X-Rays on Inst Inoculation of Carcinoma of H.cc. Title : Vopr. onkologii, 1957, 3, No 2, 189-190 Oric Pub : Cancer cells (CC) from an ascitic fluid with a neur vaccine virus adapted to them (which was passed 6 times through Abstract carcinoma of mice) were introduced into mice. CC were in contact with virus 2; hours. In other animals, CC which were subjected to 500-2000 r were injected. In the 3rd. were subjected to poor-zood r were injected. In the jet series, CC were subjected to the influence of both factors. The tumors in the 1st serie "took" with intraperitoneal introduction in 5 of 9 mice, with subcutaneous - in 7 to introduction in 5 of 9 mice, with subcutaneous - in 7 to 10 mice. In the 2nd series, correspondingly in 4 and 8 out of 8 and in all 10 (with 1990-500 r). With Card 1/2





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IEMBERG, A.A., prof. (Khar'kov, Pushkinskaye ul., d.82)

Some problems in the X-ray study of occupational changes. Vest. (NIRA 15:1)

1. Iz kafedry rentgenologii i meditsinskoy radiologii (zev. - prof. A.A.Lemberg) Ukrainskogo instituta usovershenstvovaniya vrachey (dir. - dotsent I.I.Ovsiyenko). (GONES_DISEASES) (OCCUPATIONAL DISEASES) (DIAGNOSIS, RADIOSCOPIC)

(JOINTS_DISEASES)

(DIAGNOSIS, RADIOSCOPIC)